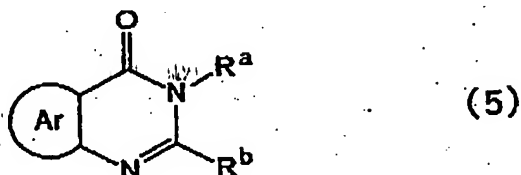## WHAT IS CLAIMED IS:

1.   A method for preparing a pyrimidin-4-one compound having the formula (5):

$$(5)$$

in which Ar represents an aromatic hydrocarbyl or heterocyclic ring optionally having a substituent, R^a represents hydrogen or a hydrocarbyl group, and R^b represents an atom or a group which does not participate in the below-mentioned reaction, provided that R^b is other than hydrogen where R^a is hydrogen;

which comprises reacting an aminoarylcarboxylic acid compound having the formula (1):

$$(1)$$
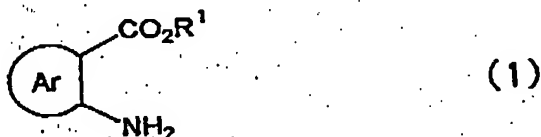
in which Ar has the above-mentioned meaning, and R^1 represents hydrogen or a hydrocarbyl group;

with an organic acid compound having the formula (4):

$$(R^3O)_3CR^b \qquad (4)$$

in which R^3 represents a hydrocarbyl group, and R^b has the above-mentioned meaning;

in the presence of a nitrogen atom-containing compound having the formula (2) or (3):

-20-

$$R^aNH_2 \qquad (2)$$
$$R^2CO_2NH_3R^a \qquad (3)$$

in which R^2 represents hydrogen or a hydrocarbyl group, and R^a has the above-mentioned meaning.

2. The method of claim 1, in which the reaction is performed in an organic solvent.

3. The method of claim 2, in which the organic solvent is a polar solvent.

4. The method of claim 3, in which the polar solvent is a lower alcohol having 1 to 6 carbon atoms.

5. The method of claim 1, in which the nitrogen atom-containing compound is an amine compound or ammonium acetate.

6. The method of claim 1, in which the reaction is performed at a temperature in the range of 40 to 200°C.

7. The method of claim 1, in which Ar is a 5- or 6-membered aromatic hydrocarbyl ring optionally having a substituent.
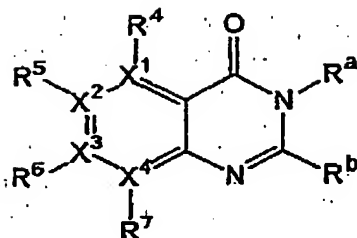
8. The method of claim 1, in which Ar is a 5- or 6-membered aromatic heterocyclic ring optionally having a substituent.

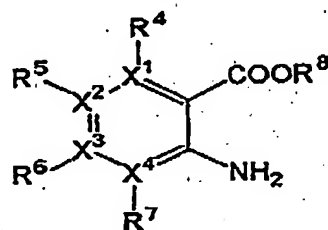9. The method of claim 1, in which the pyrimidin-4-one compound has the formula (7):

-21-

(7)

in which each of R^a and R^b has the meaning defined as
above, each of R^4, R^5, R^6 and R^7 independently represents
an atom or a group which does not participate in the
reaction, provided that R^4, R^5, R^6 and R^7 can form a ring
in optional combinations, and each of X^1, X^2, X^3 and X^4
independently represents a carbon atom or a nitrogen
atom, provided that, where any of X^1, X^2, X^3 and X^4 are ni-
trogen atoms, the nitrogen atoms do not have the atom or
group thereon,

and the aminoarylcarboxylic acid compound is an
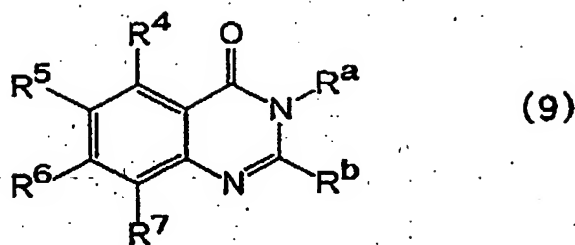aminocarboxylic acid compound having the formula (6):

(6)

in which each of X^1, X^2, X^3, X^4, R^4, R^5, R^6, and R^7 has the
meaning defined as above, and R^8 represents an atom or a
group which does not participate in the reaction.

10. The method of claim 1, in which the pyrimidin-
4-one compound is a quinazolin-4-one compound having the
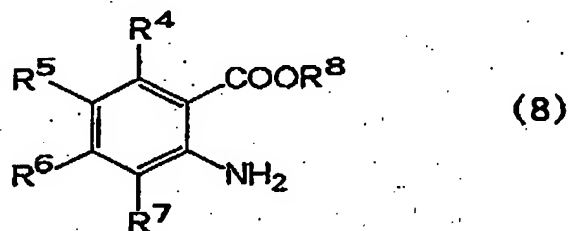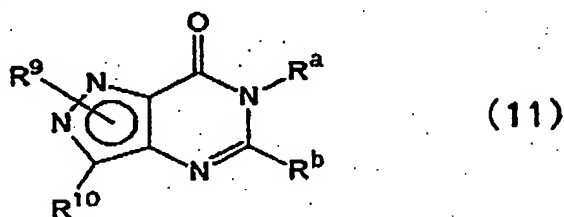formula (9):

-22-

$$(9)$$

in which each of R^a and R^b has the meaning defined as above, each of R^4, R^5, R^6 and R^7 independently represents an atom or a group which does not participate in the reaction, provided that R^4, R^5, R^6 and R^7 can form a ring in optional combinations,

and the aminoarylcarboxylic acid compound is an anthranilic acid having the formula (8):

$$(8)$$

in which each of R^4, R^5, R^6, and R^7 has the meaning defined as above, and R^8 represents an atom or a group which does not participate in the reaction.

11. The method of claim 1, in which the pyrimidin-4-one compound is a pyrazolopyrimidin-7-one compound having the formula (11):
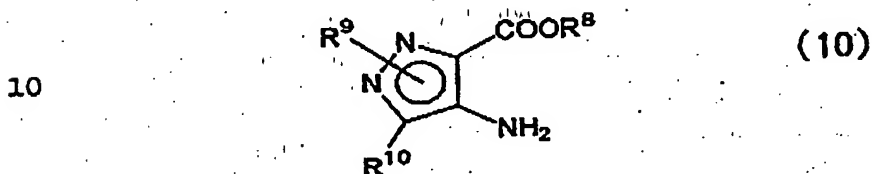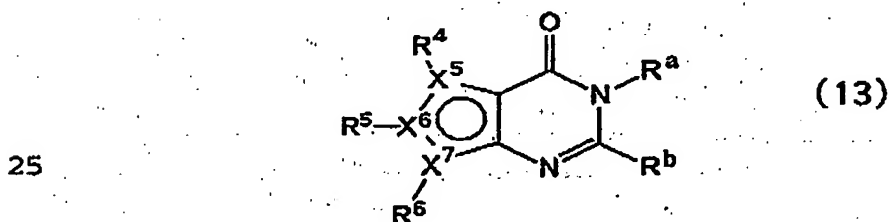
$$(11)$$

-23-

in which each of R^a and R^b has the meaning defined as above, each of R^9 and R^{10} independently represents an atom or a group which does not participate in the reaction, provided that R^9 and R^{10} can form a ring in combination,

5   and the aminoarylcarboxylic acid compound is an aminopyrazolcarboxylic acid having the formula (10):

10

(10)

in which each of R^9 and R^{10} has the meaning defined as
15   above, and R^8 represents an atom or a group which does not participate in the reaction.

    12. The method of claim 1, in which the pyrimidin-4-one compound is a thienopyrimidine compound having the
20   formula (13):

25

(13)

in which each of R^a and R^b has the meaning defined as above, each of R^4, R^5, and R^6 independently represents an
30   atom or a group which does not participate in the reaction, provided that R^4, R^5, and R^6 can form a ring in optional combinations, and at least one of X^5, X^6 and X^7 represents a sulfur atom, and other is carbon atom, provided that, where any of X^5, X^6 and X^7 are sulfur atoms,
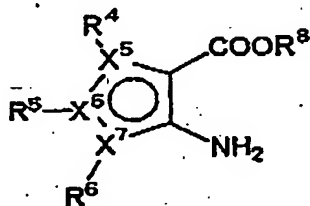35   the sulfur atoms do not have the atom or group thereon, and the aminoarylcarboxylic acid compound is an

-24-

aminothiophenecarboxylic acid compound having the formula
(12):

5

(12)

10 in which each of X^4, X^5, X^6, R^4, R^5, and R^6 has the meaning
defined as above, and R^8 represents an atom or a group
which does not participate in the reaction.